

# Magna/Cure® MAX-R

Maximum resistance dual cure emulsion for the broadest range of applications

## Magna/Cure® MAX-R

MAX-R is a universal emulsion designed to offer UNMATCHED resistance in any imaging application. MAX-R offers the following benefits:

- Outstanding resistance to aggressive water and solvent based inks and adhesives.
- Extreme durability; withstands long print runs.
- Heat and humidity resistance.
- Excellent imaging.
- Easy reclaimability with high pressure.

*MAX-R emulsion is maximum resistance. For use with water, solvent, UV and plastisol based inks. Available in dyed formulation only.*



### MATERIALS REQUIRED

Exposure unit  
Washout sink  
Clean work area  
Scoop coater

### RECOMMENDED

- Drying cabinet
- Pressure washer
- Chromaline Exposure Calculator

### CHEMICALS REQUIRED

Chroma/Clean™  
mesh degreaser  
Chroma/Strip™  
screen reclaimers

### SAFETY AND HANDLING

Avoid contact with skin and eyes.  
Refer to MSDS for further information.

### SPECIFICATIONS

Appearance: Blue  
Exposure: Fast (See Reverse)

Viscosity: 3,360 CPS (sensitized)  
Solids: 37% (sensitized)  
Other: Available upon request  
Standard Sizes: Quart, Gallon, 3.5 Gal., 50 Gal. Drum

### STORAGE

**Sensitized MAX-R** emulsion has a shelf life of 4 to 6 weeks at room temperature (60 to 80°F). To maximize sensitized shelf life use only distilled water to dissolve diazo sensitizer.

**Protect from freezing.** MAX-R is not freeze/thaw stable. Freezing during shipping may result in clear gel spots which may resemble pinholes or emulsion may appear lumpy.

**Coated, unexposed screens** can be stored as long as one month in a clean, cool, dry and completely dark area.

**Expiration date.** Always check the expiration date on the sensitizer bottle to assure freshness.

CHROMALINE DUAL CURE EMULSION

MAGNA/CURE®  
**MAX-R**



**INSTRUCTIONS**

**DEGREASE**

Using Chroma/Clean™ mesh degreaser, work up a lather on both sides of mesh. Flood screen and frame thoroughly with garden type hose, then dry.

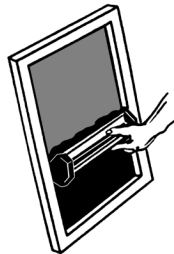


**MIX**

Mix emulsion and sensitizer according to instructions on bottle. Let emulsion stand at least two hours before using. FOR BEST RESULTS: Always stir emulsion before use. Contents may settle over long periods of time. Gentle stirring will ensure that the emulsion is properly mixed.

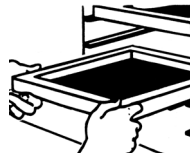
**COAT**

Fill scoop coater with room temperature emulsion. Slowly apply first coat to print side. Then coat squeegee side with one to three coats depending upon thickness required. If thicker stencil is required, additional coats may be applied to print side after initial drying of stencil. Be sure to dry thoroughly between coats.



**DRY**

Thoroughly dry screen in horizontal position, print side down, using a dark, clean drying cabinet. Temperature should not exceed 110°F (43°C).



**EXPOSE**

Place emulsion side of photopositive in contact with print side of screen.



**DEVELOP**

Gently spray both sides of screen with tepid water, wait 30 seconds then gently wash print side of the screen until image is fully open. Rinse both sides thoroughly. Dry screen completely and you are ready to print.



**IMPORTANT PRINTING NOTE**

**Water based inks:** to prevent premature breakdown on the press, spray or wipe both sides of the stencil with a water-saturated cloth immediately prior to printing.

**Solvent based inks:** to prevent premature breakdown on the press, wipe both sides of the stencil with a solvent-saturated cloth immediately prior to printing.

**RECLAIM**

Apply Chroma/Strip™ screen reclaimer to both sides of screen. Scrub area to be reclaimed with a stiff nylon brush to ensure entire surface is wet and let it work a few moments until stencil begins to dissolve. Remove stencil residue with pressure washer, then rinse with garden type hose, thoroughly flooding screen and frame.



**EXPOSURE GUIDELINES**

**Note:** Exposure times are suggested only as a guide. Use the Chromaline Exposure Calculator to determine optimal exposure times. Individual exposure times may vary depending upon equipment used, bulb age, and other shop conditions.

**SUGGESTED MINIMUM EXPOSURE GUIDELINES**

Mesh	Time
158 mesh TPI (62 cm)	60 - 90 sec.
230 mesh TPI (90 cm)	45 - 60 sec.
305 mesh TPI (120 cm)	30 - 45 sec.

Exposure times were determined by using the Chromaline Exposure Calculator. Exposure times were set for a 5KW unit at 40" from the frame. All screen mesh was dyed. Screens were coated wet on wet, once on print side and twice on squeegee side.

**AVOID FAILURE:** Dual cure emulsions have a very wide exposure latitude. Underexposed stencils often appear acceptable, but premature breakdown can occur on the press. When determining exposure speed, always overexpose your test stencil. Then, using the Chromaline exposure calculator, reduce exposure time until acceptable image quality is achieved. This will help assure good durability.

**For Technical Service**  
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